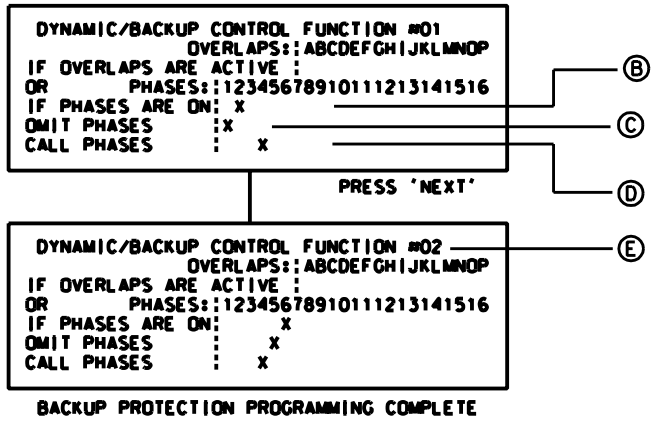
BACK-UP PROTECTION PROGRAMMING DETAIL

(program controller as shown below)

1. FROM MAIN MENU PRESS '2' (PHASE CONTROL). THEN '1' (PHASE CONTROL FUNCTIONS). SCROLL TO THE BOTTOM OF THE MENU AND ENABLE DYNAMIC/BACKUP CONTROL FUNCTIONS 1 AND 2. — Ⓐ

2. FROM PHASE CONTROL FUNCTIONS MENU PRESS '2' (DYNAMIC/BACKUP CONTROL FUNCTIONS).



BACKUP PROTECTION PROGRAMMING COMPLETE

BACK-UP PROTECTION PROGRAMMING DETAIL

THE IMAGE TO THE LEFT IS AN EXACT DUPLICATION OF THE BACK-UP PROGRAMMING DISPLAY FOUND ON A 2070 CONTROLLER RUNNING OASIS CONTROL SOFTWARE.

WHEN A SIGNAL DESIGN REQUIRES THE USE OF BACK-UP PROTECTION TO ELIMINATE A YELLOW TRAP SITUATION, THIS DETAIL IS SHOWN ON THE ELECTRICAL PLANS TO STEP THE INSTALLER THROUGH THE CONTROLLER PROGRAMMING PROCEDURE.

THE CONTROLLER ACCOMPLISHES "BACK-UP PROTECTION" BY OMITTING THE LEFT TURN PHASE WHILE THE OPPOSITE THROUGH MOVEMENT IS "ON". PHASE "ON" IS A CONTROLLER FUNCTION THAT IS ACTIVE DURING THE PHASE GREEN, YELLOW CHANGE, AND RED CLEARANCE INTERVALS.

BELOW IS A BRIEF EXPLANATION OF BACK-UP PROTECTION FEATURES AND FUNCTIONALITY:

Ⓐ ACTIVATION NOTE - THIS NOTE DIRECTS THE INSTALLER TO THE PHASE CONTROL PAGE OF THE CONTROLLER PROGRAMMING. AT THE BOTTOM OF THIS PAGE THERE IS A PARAMETER LISTED CALLED "DYNAMIC/BACKUP". THE INSTALLER IS DIRECTED TO FLAG THE DYNAMIC/BACKUP FUNCTIONS THAT WILL BE IN USE, OTHERWISE THE BACK-UP PROGRAMMING WILL NOT FUNCTION. SEE FUNCTION NUMBER BELOW IN NOTE Ⓔ.

Ⓑ PHASE "ON" LINE - PHASES SELECTED HERE DETERMINE WHEN AN "OMIT" IS PLACED DURING THE SIGNAL SEQUENCE.

Ⓒ PHASE "OMIT" LINE - PHASES SELECTED HERE DETERMINE WHERE AN OMIT IS PLACED DURING THE SELECTED "PHASE ON".

Ⓓ "CALL" PHASES LINE - PHASES SELECTED HERE DETERMINE THE PHASE THAT THE OMITTED PHASE DETECTORS WILL CALL WHILE THAT PHASE IS OMITTED. THE CALL PLACED IS A SPECIAL "DYNAMIC CALL" THAT WILL BE RELEASED WHEN THE SELECTED PHASE SWITCHES TO GREEN. THIS DYNAMIC CALL PRODUCES A MINIMUM RECALL TYPE OPERATION (DYNAMIC CALL WILL NOT MAX OUT A PHASE).

Ⓔ FUNCTION NUMBER - THE CONTROLLER IS CAPABLE OF UP TO SIXTEEN DYNAMIC FUNCTIONS. FOR NORMAL BACK-UP PROTECTION, ONE FUNCTION SHOULD BE USED FOR EACH LEFT TURN THAT IS BEING OMITTED. THE EXAMPLE SHOWN TO THE LEFT SHOWS PHASES 1 AND 5 BEING OMITTED BY PHASES 2 AND 6 RESPECTIVELY. THE PHASE CALLS WILL CYCLE THE CONTROLLER THROUGH THE SIDE STREET THROUGH MOVEMENTS BEFORE SERVING PHASES 1 AND/OR 5. PLEASE NOTE THAT EACH LEFT TURN OMIT IS ACCOMPLISHED IN A SEPARATE FUNCTION.

2070 OASIS Back–Up Protection Programming Detail

SIGNALS MANAGEMENT SECTION
TRAFFIC ENGINEERING AND SAFETY SYSTEMS BRANCH
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

7-04

STD. NO.
5.0
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